

① Solve for y

(a)  $\frac{3}{3}y = \frac{15 - 6x}{3}$

$y = 5 - 2x$

(b)  $2y + 12 = 6$   
 $\quad \quad \quad -12 \quad -12$

$\frac{2y}{2} = \frac{-6}{2}$

$y = -3$

(c)  $\frac{3x}{-3x} + 4y = \frac{8}{-3x}$

$\frac{4y}{4} = \frac{8 - 3x}{4}$

$y = 2 - \frac{3}{4}x$

② Simplify

(a)  $3^2 \cdot 3^4 = 3^6$   
 $3 \cdot 3 \cdot 3 \cdot 3 \cdot 3 \cdot 3$

(b)

$\frac{3^5}{3^3} = 3^2$   
 $\frac{3 \cdot 3 \cdot 3 \cdot 3 \cdot 3}{3 \cdot 3 \cdot 3}$

(c)

$(x \cdot y)^2$   
 $\frac{x \cdot y \cdot x \cdot y}{x^2 y^2}$

③ Factor and/or distribute

(a)  $3(x + 5)$

$3x + 15$

(b)  $6x + 12$

$6(x + 2)$

(c)  $\text{Ans} + 0.05 \text{Ans}$

$\text{Ans}(1 + 0.05)$

$$\textcircled{6} \quad y = 500(1 + 0.04)^x$$

$$\textcircled{8} \quad y = 100(1 + 0.045)^x \quad \leftarrow \text{month}$$

$$y = 100(1 + 0.045)^4$$

$$\approx 119.25$$

$$y = 450(1 + 0.20)^x$$

$$y = 450(1 + 0.20)^7$$

$$y = 1612$$

Write equations for each table

Ⓐ

x	y
0	3
1	12
2	48
3	192
4	768

$\rightarrow +9$   
 $\rightarrow +36$

$$y = 3 \cdot 4^x$$

$$y = ab^x$$

$\downarrow$  start  $x=0$        $\downarrow$  constant multiplier

$$y = mx + b$$

$\downarrow$  slope       $\downarrow$  y-intercept

Ⓑ

x	y
0	48
1	24
2	12
3	6
4	3

$$y = 48 \cdot (0.5)^x$$

Ⓒ

x	y
0	1
1	7
2	13
3	19
4	25

$\rightarrow +6$   
 $\rightarrow +6$   
 $\rightarrow +6$   
 $\rightarrow +6$

$$y = 6x + 1$$

linear

Ⓓ

x	y
0	2
1	6
2	18
3	54
4	162

$$y = 2 \cdot 3^x$$

Do Quality Work - Not just answers

↓  
7.2 #9 + 13

HW

7.2 #13

p. 387 #16

p. 392 #14